SUNCOM 4.5METER ANTENNA

Features
- Meets or exceeds ITU-RS 580-5 and INTELSAT requirements
- High G/T, excellent pattern characteristics
- Self-aligning aluminum reflector, no field alignment
- Factory feed system testing
- All of steel parts to be processed by hot dipped zinc
- 2-port or 4-port Linear/Circular Feed
- Field changeable feed system, switchable circular to linear C-band
- Foundation hardware kit included
- Air or ocean transport packing

Options
- Specialized feed systems (e.g. extended, multi-band, Ka Band, DBS band)
- Antenna control system with tracking (Steptrack, Program Tracking and Inclined Orbit Tracking)
- Reflector and feed deicing systems
- ODU Support Kits
- Lightning Rod Kit
- Grounding Kit
- Cable-Mounting Kit
- Turnkey installation and testing
- Non-penetrating mount
- High wind configuration
- Extended Az travel

Notice: For any specialized request please contact Suncom sales office

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ELECTRICAL SPECIFICATION
<table>
<thead>
<tr>
<th>Type</th>
<th>450FC</th>
<th>450FK</th>
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<tbody>
<tr>
<td><strong>C-Band</strong></td>
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<tr>
<td>Operating Frequency, GHz</td>
<td>Receive</td>
<td>Transmit</td>
</tr>
<tr>
<td></td>
<td>3.4~4.2</td>
<td>5.85~6.725</td>
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<tr>
<td>Gain, Mid-band, dBi</td>
<td>44</td>
<td>47.3</td>
</tr>
<tr>
<td>Polarization</td>
<td>Linear/ Circular</td>
<td>Linear</td>
</tr>
<tr>
<td>XPD (on Axis), dB</td>
<td>35</td>
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<tr>
<td>XPD across 1dB Beam Width, dB</td>
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<td>33</td>
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<tr>
<td>Axial Ratio (Circular-Polarized)</td>
<td>1.30/1.06</td>
<td>1.09/1.06</td>
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<tr>
<td>VSWR</td>
<td>1.25</td>
<td>1.25</td>
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<tr>
<td><strong>Ku-Band</strong></td>
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**MECHANICAL SPECIFICATION**

- **Antenna Diameter**: 4.5 m
- **Antenna Type**: Ring Focus
- **Mount Type**: El. over Az.
- **Surface Accuracy (RMS)**: ≤ 0.5mm
- **Antenna Pointing Range**
  - Azimuth: ±90°, ±65° (Continuous)
  - Elevation: 0°~90° (Continuous)
  - Polarization: 180° (Continuous)
- **Drive Mode**: Manual or Motorized
- **Motor Drive System**
  - Azimuth Travel Rate: 0.11° /S (0.06° /S)
  - Elevation Travel Rate: 0.17° /S (0.04° /S)
  - Polarization: 1° /S

**ENVIRONMENTAL SPECIFICATION**

- **Operational Wind**: 72km/h Gusting to 97km/h
- **Survival Wind**: 216km/h
- **Temperature**: -40°C ~ + 60°C
- **Relative Humidity**: 100%
- **Solar Radiation**: 1135Kcal/ h/ m²
- **Seismic (Survival)**: 0.3g (H), 0.15g (V)
- **Ice Loading**: 13mm Operational; 25mm Survival